

1 / 10

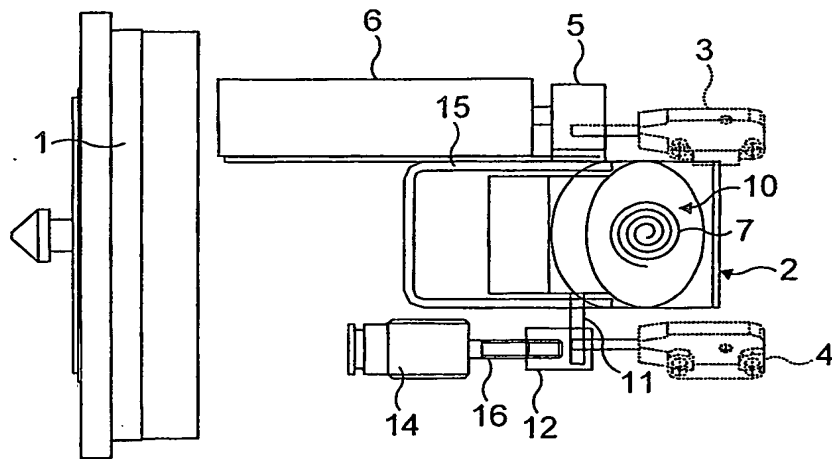


FIG. 1

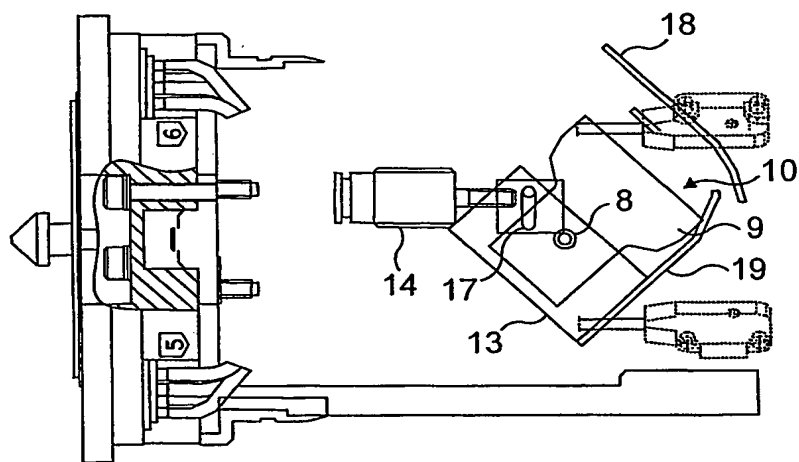


FIG. 2

2 / 10

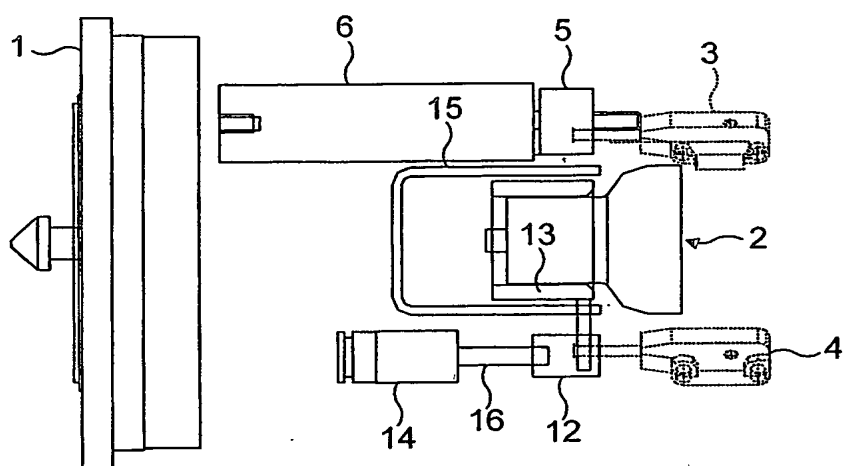


FIG. 3

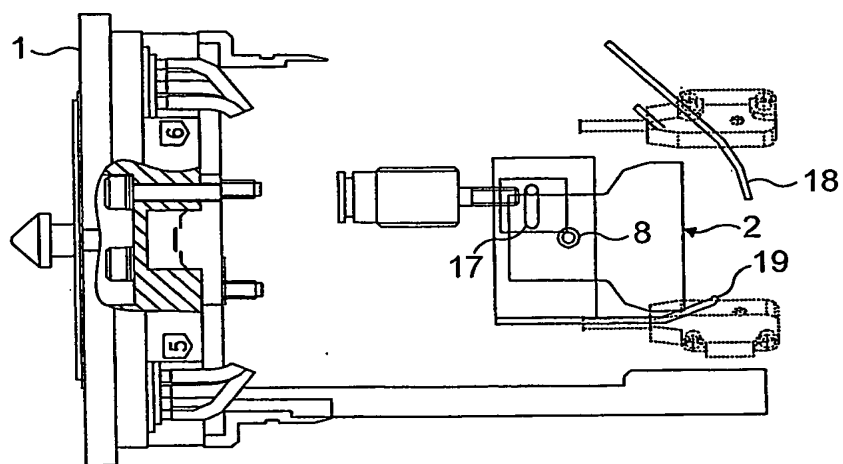


FIG. 4

3 / 10

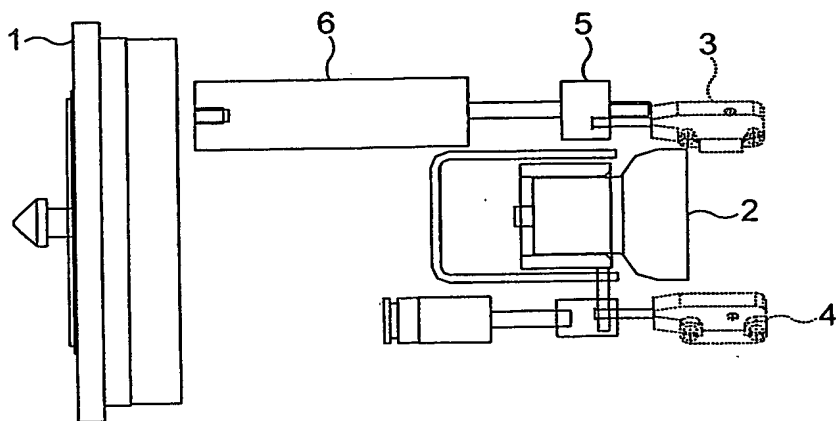


FIG. 5

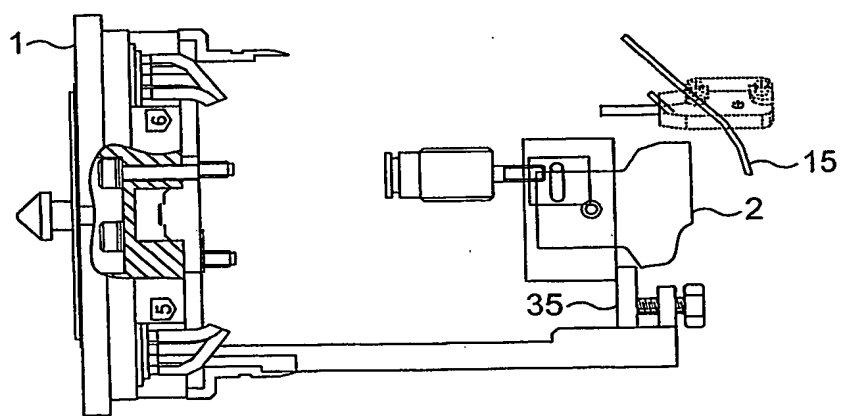


FIG. 6

4 / 10

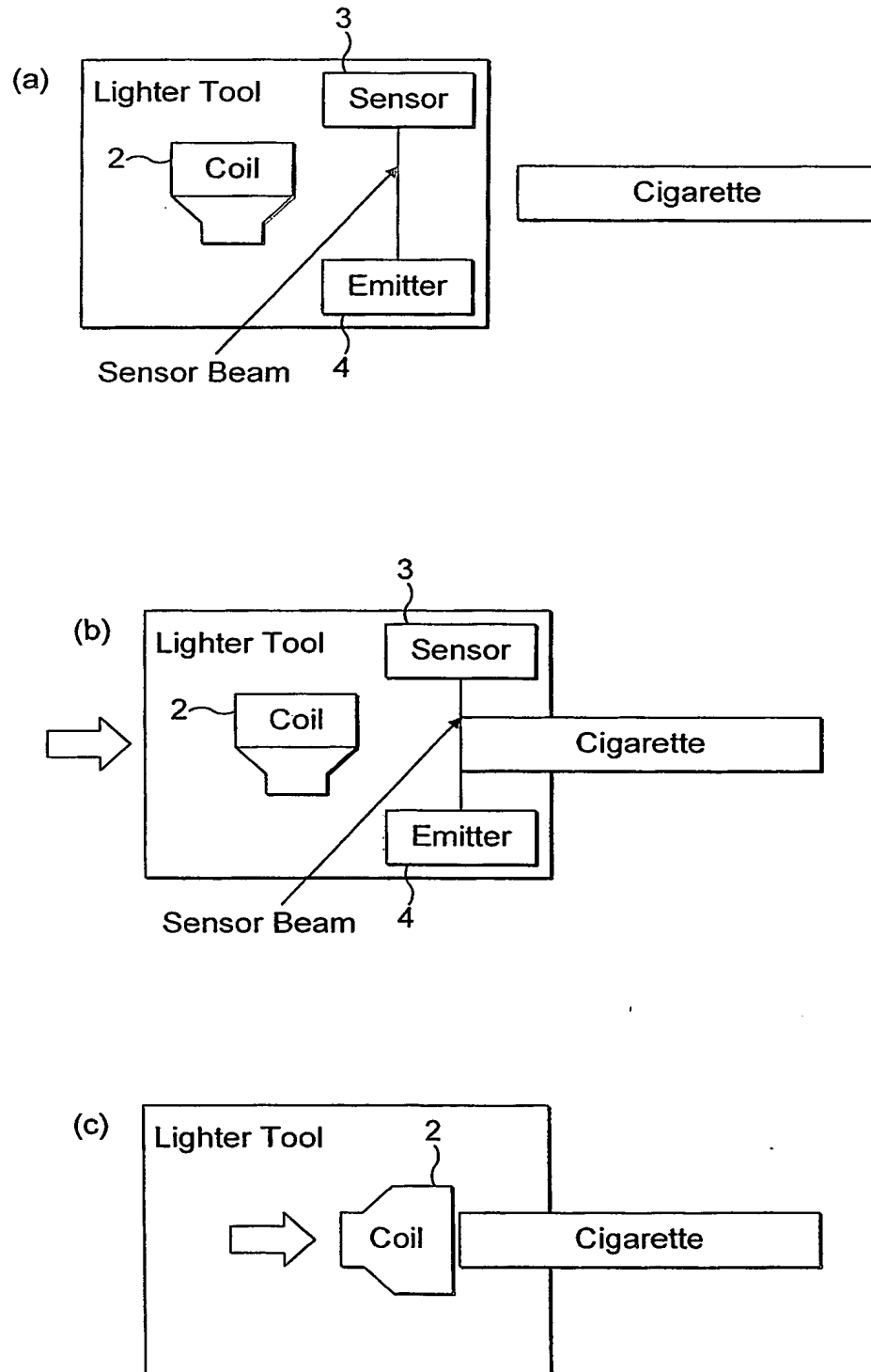


FIG. 7

5 / 10

1. The lighter tool is picked up by an automatic tool holder and moved to within a few centimetres of the cigarette.

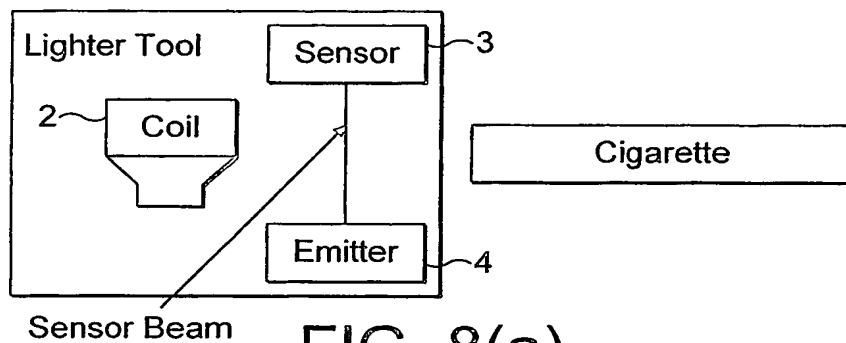


FIG. 8(a)

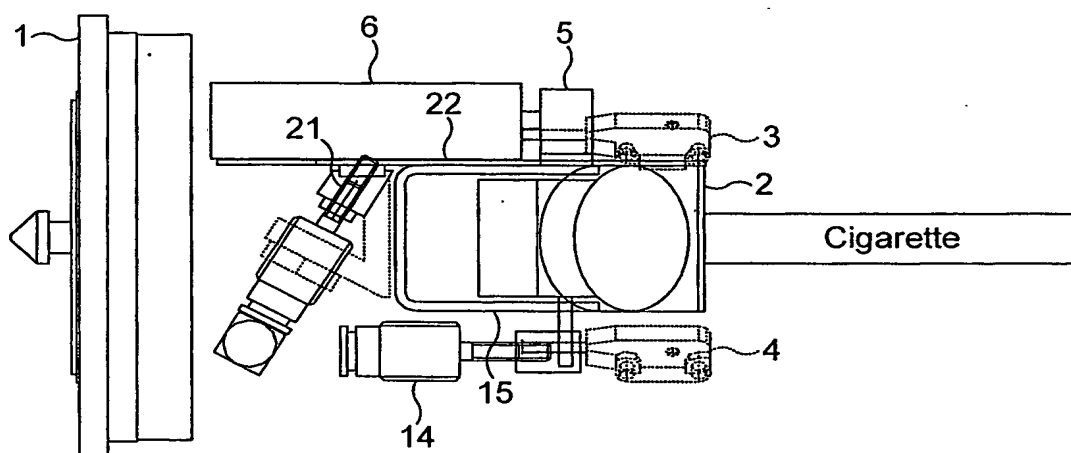


FIG. 8(b)

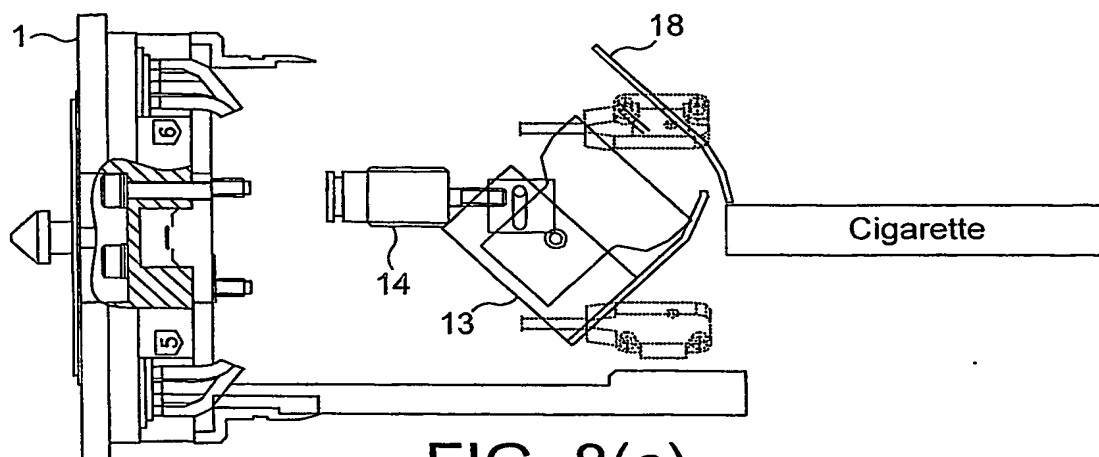


FIG. 8(c)

6 / 10

2. When lighting is required, the pre heated lighter coil is swung down into the lighting position and moved towards the cigarette.

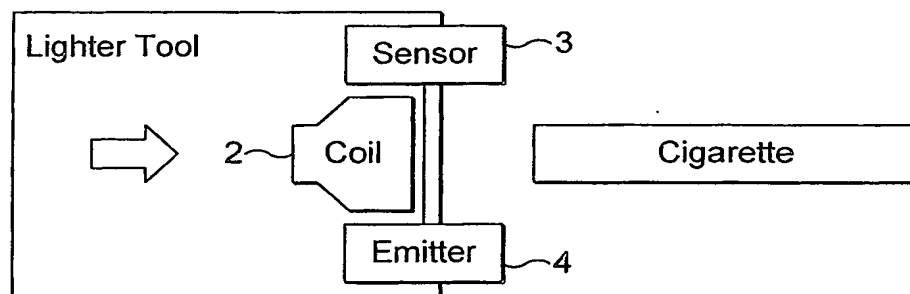


FIG. 9(a)

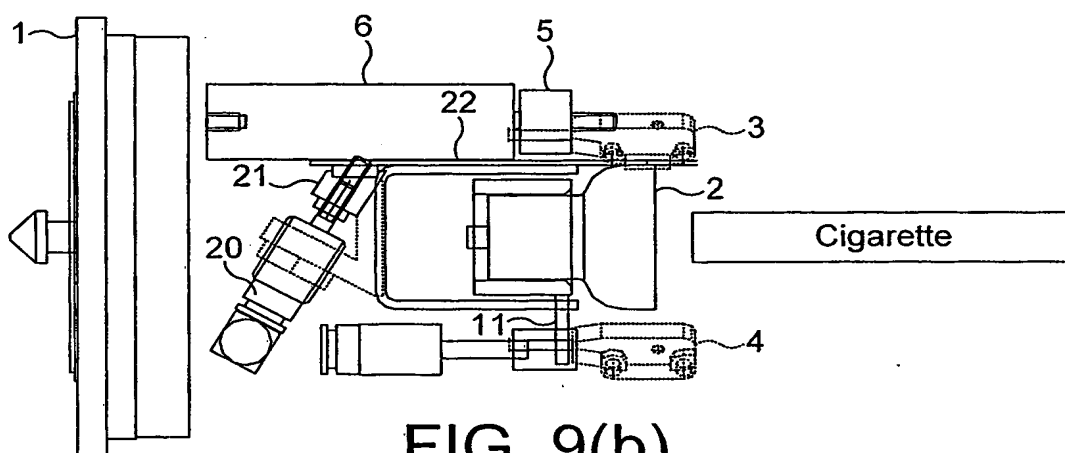


FIG. 9(b)

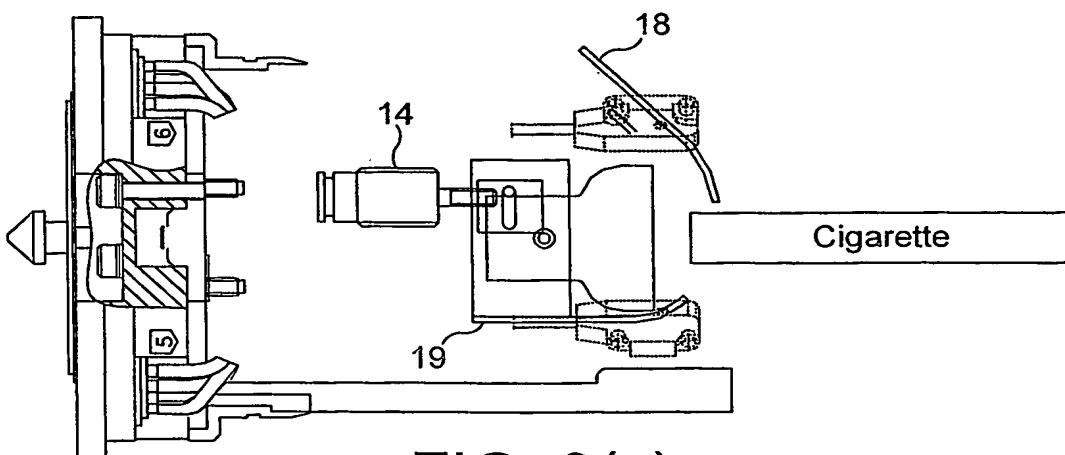


FIG. 9(c)

7 / 10

3. When the sensor detects the cigarette, the mechanism / tool is stopped ensuring repeatable positioning / lighting.

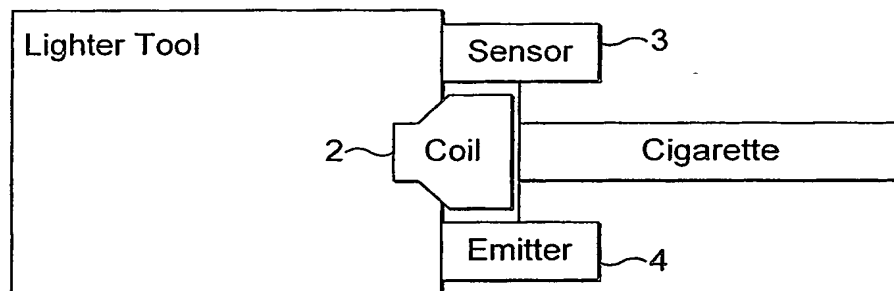


FIG. 10(a)

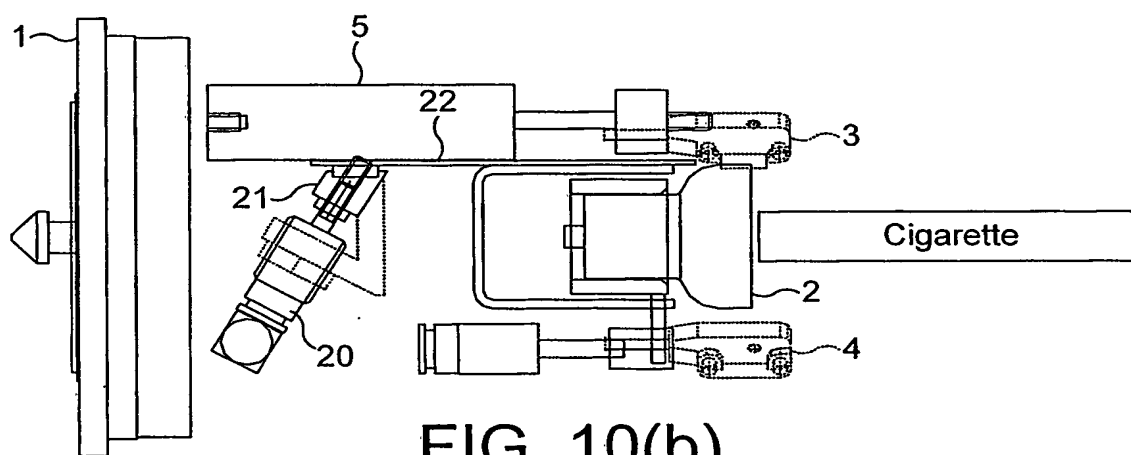


FIG. 10(b)

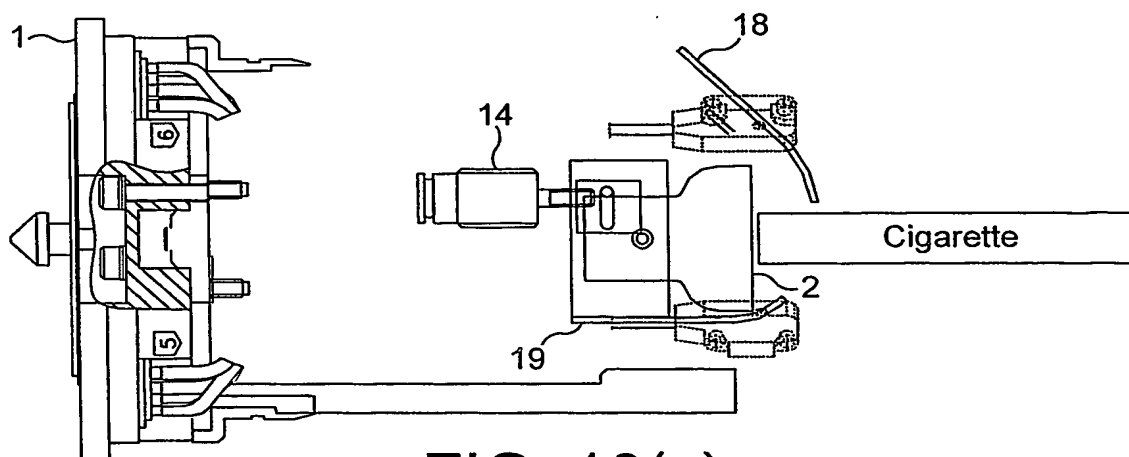


FIG. 10(c)

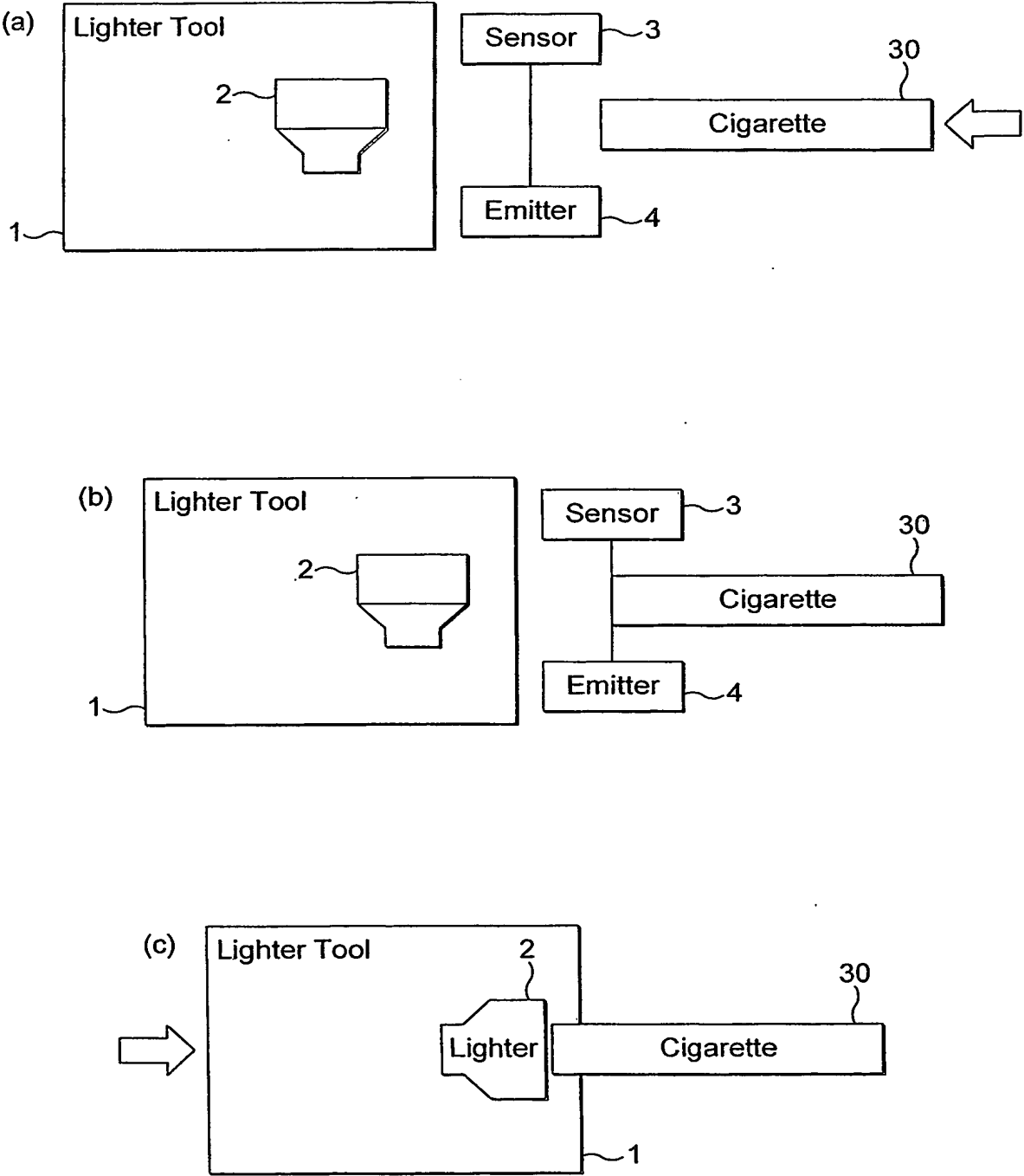


FIG. 11



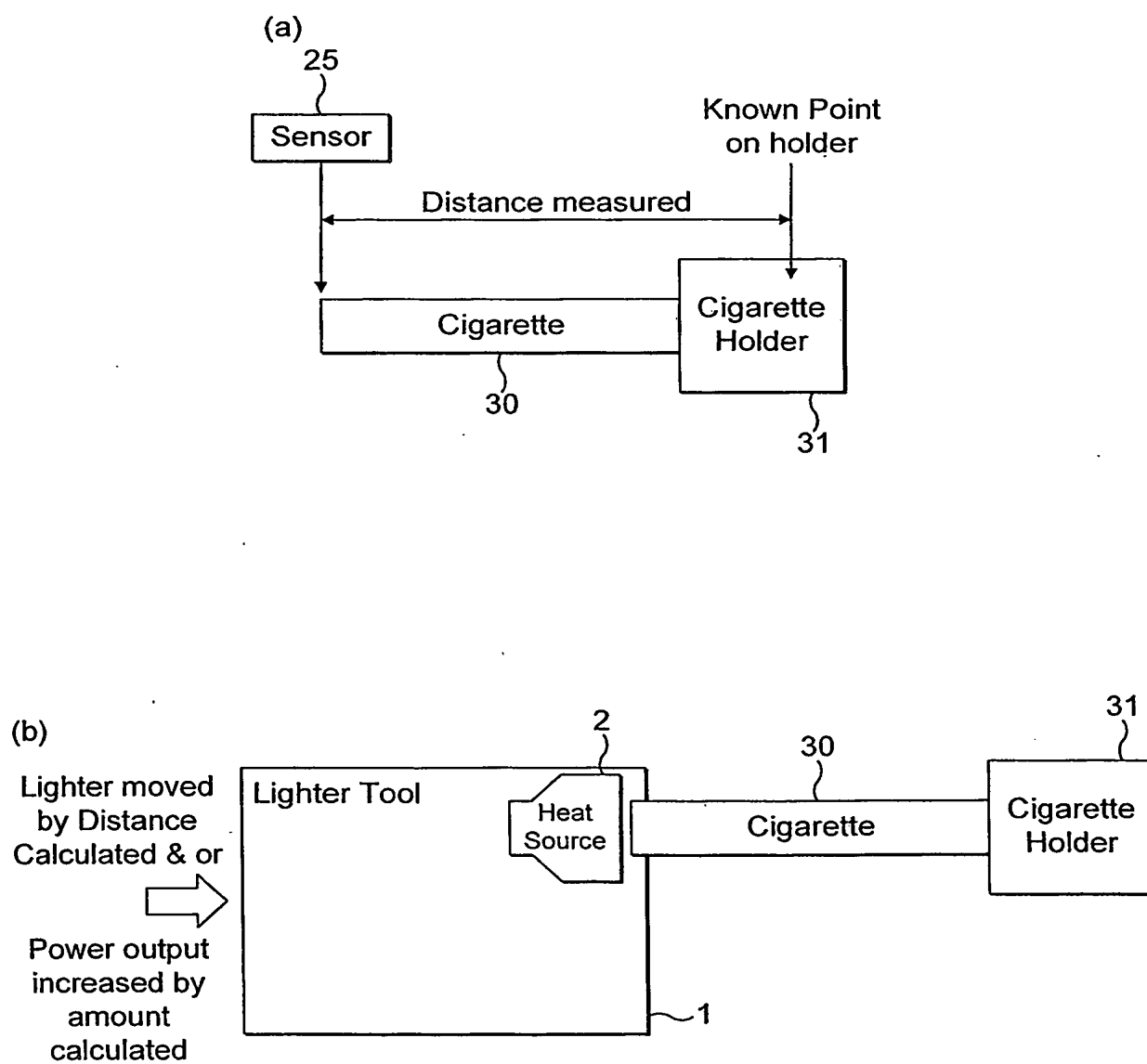


FIG. 12

10 / 10

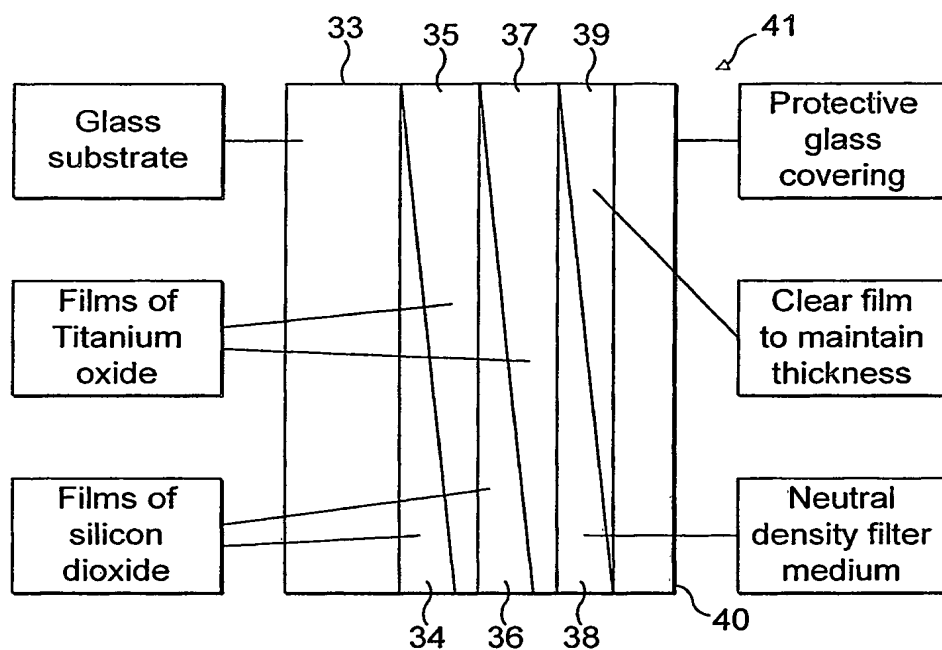


FIG. 13

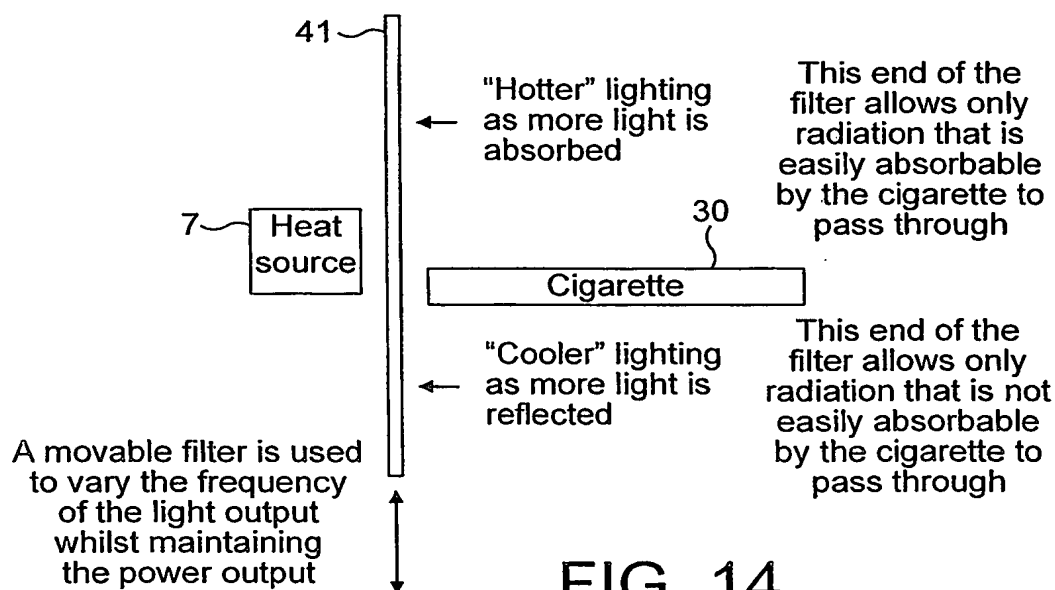


FIG. 14